

## WHAT IS CLAIMED IS:

1. An image information detection sensor comprising:
  - a light-emitting element;
  - a light-emitting pinhole which focuses light from5 said light-emitting element as detection light in a toner image detection region without using a lens;
  - a light-receiving pinhole which transmits the detection light reflected in the toner image detection region; and
  - 10 a light-receiving element which receives the detection light having passed through said light-receiving pinhole,
    - wherein a hole diameter of said light-receiving pinhole is set larger than a spot diameter of the15 detection light focused by said light-emitting pinhole.
2. The sensor according to claim 1, wherein the hole diameter of said light-receiving pinhole is set larger than a hole diameter of said light-emitting pinhole.
3. The sensor according to claim 1, wherein said 20 light-emitting element is arranged more apart from said light-emitting pinhole in order to narrow down the spot diameter of the detection light focused in the toner image detection region.
4. The sensor according to claim 1, wherein the 25 image information detection sensor does not have a lens for focusing the detection light in a region where the detection light passes between a toner image and said

light-receiving element.

5. An image forming apparatus using an image information detection sensor defined in claim 1, comprising:

5 a plurality of image forming means; and  
a belt member which is looped, rotated, and  
driven near said image forming means,

wherein in order to correct misregistration of an image formed by said plurality of image forming means,

10 an image misregistration detection pattern which is formed by said plurality of image forming means and transferred onto said belt member is read by the image information detection sensor, and registration of each image forming means is corrected on the basis of a  
15 detection result.

6. The apparatus according to claim 5, wherein said belt member includes a transfer medium convey belt which conveys a transfer medium on which an image is formed by said image forming means.

20 7. The apparatus according to claim 5, wherein said belt member includes an intermediate transfer belt on which an image is formed by said image forming means.